



CODIGO DE ESTUDIANTE

C10177-X

CARRERA: Cs Bs

ASIGNATURA: Fisica lab

FECHA:

PERIODO DE EVALUACIÓN: 1er Parcial

Progunta 1.)

b) Minimos Cuadrados.

$$\sum x = 0.6$$

$$\sum y = 458020$$

$$\sum xy = 46074, 2$$

$$\sum x^2 = 0.088$$

$$\sum y^2 = 3.447 \times 10^{10}$$

$$\sum d^2 = 3253, 33$$

$$\sum x = 0.6$$

$$\sum y = 458020$$

$$\sum xy = 460740.2$$

$$\sum x^2 = 0.088$$

$$\sum y^2 = 3.447 \times 10^{10}$$

$$\sum d^2 = 3253.33$$

$$A = \frac{\sum y \sum x^2 - \sum xy \sum x}{0.088 - (0.6)^2} = 0.168$$

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$$\Delta = 6 \cdot 0,088 - (0,6)^{2} = 0,168.$$

$$\sigma^{2} = \frac{\xi d^{2}}{h-2} = \frac{3253,33}{4} = 813,33.$$

$$A = (75346,67 \pm 20,64);0,03\%$$

$$E = \frac{20,64}{75346,67} \times 100 = 0,03\%$$

$$E = \frac{20,64}{75346,67} \times 100 = 0,03\%$$

$$E_{90} = \frac{20,64}{75346,67} \times 100 = 0,0396$$

$$B = \frac{N \xi \chi y - \xi \chi \xi y}{N \xi \chi^2 - (\xi \chi)^2} = \frac{6(46079,2) - (0,6)(458026)}{6(0,088) - (0,6)^2} = 9900 \cdot B = 9900$$

$$O_{B} = \sqrt{\frac{\sigma^{2} u}{A}} = \sqrt{\frac{813,33.6}{0,168}} = 170,43.$$

$$E\% = \frac{170,43}{9900} \times 100 = 1,790$$



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PERIODO DE EVALUACIÓN: 1er

C).
$$P = P_0 + Jgh$$
. $Y = A + Bx$.

$$A = P_0$$
 $B = f_0$.
 $P_0 = (75346,67 \pm 20,64);0,03\%$ $P_0 = (75346,67 \pm 20,64);0,03\%$

d). $f = \frac{B}{\alpha}$

 $9 = (9,78 \pm 0,02)$ $\frac{4}{5}$ 2. $3 = (9900 \pm 170,43);1,7%.$

$$f = \frac{9900}{9,78} = 1012,27.$$

$$e_p = \sqrt{\Delta_S^2 + \Delta_S^2}$$
.

$$\Delta_B = \frac{\partial B}{\partial l} e_B$$
. $\Delta_g = \frac{\partial g}{\partial l} e_g$.

$$\int = \mathbf{B} \cdot \mathbf{Q}^{-1}.$$

$$\frac{\partial B}{\partial g} = \frac{1}{9} = \frac{1}{9,78} \left\{ \frac{\partial g}{\partial f} = B(-1g^{-2}) = -\frac{B}{g^2} = -\frac{aq00}{(\alpha,78)^2} \right\}$$

$$e_{f} = \sqrt{\left(\frac{1}{9,78}170,43\right)^{2} + \left(-\frac{9900}{(9,78)^{2}}0,02\right)^{2}}$$

 $e_{f} = 17,55$

$$\frac{17,55}{1012,27} \cdot 100 = 1,790$$

$$\int = (1012, 27 \pm 17, 55) \left[\frac{kg}{m^3} \right]; 1, 7\%.$$



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X- FFLOL)

CARRERA: Cs Bs

ASIGNATURA: Fisica lab 11

FECHA:

PERIODO DE EVALUACIÓN: Jer Parcial

Pregunta 3.

mmmmmm

 $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{3}$

K=K.

Debido a que sou ignales is de misma longitod.

夏

$$\int \frac{1}{k} = \frac{1}{k_1} + \frac{1}{k_2} + \frac{1}{k_3}$$

Si se los

e cuberza a cola

ko.



CODIGO DE ESTUDIANTE

CTOT11-X

CARRERA: Cs Bs

ASIGNATURA: FISICA

FECHA:

PERIODO DE EVALUACIÓN: 1er Parcia !

Pregunta 2

a). Minimos Cuadrados.

$$\sum x = 1,35$$

$$\sum y = 135,63$$

$$\sum xy = 34,889$$

$$\sum x^{2} = 0,3475$$

$$\sum 2^{2} = 0,5466$$

$$A = \frac{\sum y \sum x^2 - \sum x y \sum x}{N \sum x^2 - (\sum x)^2} = \frac{(135,63)(6,3475) - (34,889)}{6(9,3475) - (3,35)^2}$$

$$A = 0,119.$$

$$O_{A} = \sqrt{\frac{\sigma^{2} \xi x^{2}}{\Delta}}$$

$$\Delta = N \sum_{i=1}^{1} x^{2} - (Ex)^{2} = 6(0,3475) - (1,35)^{2} = 0,2625$$

$$\Delta = 0,2625.$$

$$\Delta = \frac{Ed^{2}}{N-2} = \frac{0,5466}{4} = 0,1367.$$

$$D = 0,1367.$$

$$\overline{O_A} = \sqrt{\frac{(0,1367)(0,3475)}{0,2625}} = 0,425.$$

$$A = (0,119 \pm 0,4)$$
 $\frac{0,4}{0,1} \times 100 = 40$

$$A = (0,1\pm 0,4); 400\%.$$
 Se des precia por el

$$\frac{0.4}{0.1} \times 100 = 400$$

$$B = \frac{u \leq xy - \leq x \leq y}{u \leq x^2 - (\leq x)^2} = \frac{6(34,889) - (1,35)(135,63)}{0,2625} = 99,94. \quad \boxed{13 = 99,94}$$

$$\mathcal{O}_{B} = \sqrt{\frac{\sigma^{2} N}{\Lambda}} = \sqrt{\frac{\sigma_{1} \cdot 367 \cdot 6}{\sigma_{1} \cdot 2645}} = 1,77. \quad 1.8. \quad \frac{1.8}{99.0} \times 100 = 1.89.$$



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ASIGNATURA: Fisica lab

FECHA:

PERIODO DE EVALUACIÓN: LET Parcial

$$y = A + Bx$$
 $f = K \Delta x$

A se desprecia.

$$B = k$$

 $f_{eq}^{(qq,q\pm 1,8)}[m/m];1,80%$.

Preguntal q0 ± 2

Respuesta - tendría que tener la misma densidad que el líquido en el que se introduce.

